

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/836,5440  
Source: IFW/6  
Date Processed by STIC: 1/3/06

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/836,544D

DATE: 01/03/2006

TIME: 14:39:37

Input Set : A:\11-88L.ST25.txt  
 Output Set: N:\CRF4\01032006\I836544D.raw

3 <110> APPLICANT: Seed, Brian  
 4 Aruffo, Alejandro  
 5 Camerini, David  
 7 <120> TITLE OF INVENTION: CD27 Coding Sequence  
 9 <130> FILE REFERENCE: 11-88L  
 11 <140> CURRENT APPLICATION NUMBER: US 09/836,544D  
 12 <141> CURRENT FILING DATE: 2001-04-17  
 14 <150> PRIOR APPLICATION NUMBER: US 07/983,647  
 15 <151> PRIOR FILING DATE: 1992-12-01  
 17 <150> PRIOR APPLICATION NUMBER: US 07/553,759  
 18 <151> PRIOR FILING DATE: 1990-07-13  
 20 <150> PRIOR APPLICATION NUMBER: US 07/498,809  
 21 <151> PRIOR FILING DATE: 1990-03-23  
 23 <150> PRIOR APPLICATION NUMBER: US 07/379,076  
 24 <151> PRIOR FILING DATE: 1989-07-13  
 26 <150> PRIOR APPLICATION NUMBER: US 07/160,416  
 27 <151> PRIOR FILING DATE: 1988-02-25  
 29 <160> NUMBER OF SEQ ID NOS: 41  
 31 <170> SOFTWARE: PatentIn version 3.3  
 33 <210> SEQ ID NO: 1  
 34 <211> LENGTH: 2932  
 35 <212> TYPE: DNA  
 36 <213> ORGANISM: artificial  
 38 <220> FEATURE:  
 39 <223> OTHER INFORMATION: Nucleotide sequence of piH3 vector  
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 44 gatcaagagc taccacttct ttttccgaag gaactggctt cagcagagcg cagataccaa 120  
 46 atactgtctt tctatgttag ccgtatgttag gccaccactt caagaactct gtagcaccgc 180  
 48 ctacataacct cgctctgcta atccctgttac cagtggctgc tgccagtggc gataagtctg 240  
 50 gtcttaccgg gttggactca agacgatagt taccggataa ggcgcagcgg tcgggctgaa 300  
 52 cgggggggttc gtgcacacag cccagcttgg agcgaacgc ctacaccgaa ctgagatacc 360  
 54 tacagcgtga gctatgagaa agccgcacgc ttcccaagg gagaaaggcg gacaggtatc 420  
 56 cggtaagcgg cagggtcgg a caggagagc gcacgaggga gcttccaggg ggaaacgcct 480  
 58 ggtatctta tagtcctgtc gggtttcgcc acctctgact tgagcgtcga tttttgtat 540  
 60 gctcgtcagg ggggcggagc ctatggaaaa acgccacaa cggccgattha cccgggtgtt 600  
 62 tctcaacgtt acactttaca gccgcgcgtc attgtatgt atgcgcggcc cttcccgata 660  
 64 aggagcagg ccagtaaaag cattaccgtt ggtgggttc cccgagcggcc aaaggagca 720  
 66 gactctaaat ctgcgtcat cgacttcgaa gttcgaatc cttcccccac caccatcact 780  
 68 ttcaaaaatc cgaaaagaatc tgctccctgc ttgtgtgtt gagggtcgctg agtagtgcgc 840  
 70 gagtaaaatt taagctaca caaggcaagg cttgaccgac aattgcata agaatctgct 900  
 72 tagggtagg cgaaaaatc tgctccctgc ttgtgtgtt gagggtcgctg agtagtgcgc 960  
 74 attattactt agttaatcaat tacgggtca tttagttcata gcccataat 1020

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80	ttgacgtcaa	tgggtggact	atttacggta	aactgcccac	ttggcagtagc	atcaagtgt	1200										
82	tcatatgcc	agtacgcccc	ctattgacgt	caatgacgg	aatggcccg	cctggcatta	1260										
84	tgcggcgtac	atgacccat	gggacttcc	tacttggcag	tacatctacg	tattagtcat	1320										
86	cgttattacc	atggtcatgc	gttttggca	gtacatcaat	gggcgtggat	agcggttga	1380										
88	ctcacgggaa	tttccaagtc	tccacccat	tgacgtcaat	gggagttgt	tttggcacca	1440										
90	aaatcaacgg	gactttccaa	aatgtcgtaa	caactccg	ccattgacgc	aatgggcgg	1500										
92	aattcctggg	cgggactggg	gagtggcag	ccctcagatg	ctgcatataa	gcagctgctt	1560										
94	tttgcctgta	ctgggtctct	ctgggttagac	cagatctgag	cctgggagct	ctctggctaa	1620										
96	ctagagaacc	cactgtttaa	gcctcaataa	agcttctaga	gatccctcg	cctcgaggga	1680										
98	tcttcatac	ctaccagttc	tgcgcctgca	ggtcgcggcc	gcgactctag	aggatctt	1740										
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102	gctctaagg	aaatataaaa	tttttaagt	tataatgtgt	taaactactg	attctaatt	1860										
104	tttgtgtatt	tttagattcca	acctatggaa	ctgatgaatg	ggagcagtg	tggaaatgcct	1920										
106	ttaatgagga	aaacctgttt	tgctcagaag	aaatgccatc	tagtcatgtat	gaggctact	1980										
108	ctgactctca	acattctact	cctccaaaaaa	agaagagaaa	ggtagaagac	cccaaggact	2040										
110	ttccttcaga	attgctaagt	tttttgagtc	atgctgtgtt	tagtaataga	actcttgctt	2100										
112	gcttgctat	ttacaccaca	aaggaaaaag	ctgactgct	atacaagaaa	attatggaaa	2160										
114	aatattctgt	aacctttata	agtaggcata	acaggatataa	tcataacata	ctgtttt	2220										
116	ttaactccaca	caggcataga	gtgtctgcta	ttaataacta	tgctcaaaaa	tttgttac	2280										
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122	cacccccc	tgaacctgaa	acataaaaatg	aatgcaattt	tttgtttaa	cttgttatt	2460										
124	gcagctata	atggttacaa	ataaaagcaat	agcatcacaa	atttcacaaa	taaagcattt	2520										
126	tttcactgc	attctagtt	tggttgtcc	aaactcatca	atgtatctt	tcatgtctgg	2580										
128	atcctgtgga	atgtgtgtca	gttaggggt	ggaaagtccc	caggctccc	agcaggcaga	2640										
130	agtatgcaaa	gcatgcatct	caattagtc	gcaaccagg	gtggaaagtc	cccaggctcc	2700										
132	ccagcaggca	gaagtatgca	aagcatgcat	ctcaattagt	cagcaaccat	agtccgc	2760										
134	ctaactccgc	ccatccgc	cctaactcg	cccagttcc	ccattctcc	gccccatggc	2820										
136	tgactaattt	tttttattta	tgcagaggcc	gaggccgc	cggcctctga	gctattccag	2880										
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154		1			5				10								
156	ttc	aat	gtt	tct	tcc	aaa	ggt	gca	gtc	tcc	aaa	gag	att	acg	aat	gcc	96
157	Phe	Asn	Val	Ser	Ser	Lys	Gly	Ala	Val	Ser	Lys	Glu	Ile	Thr	Asn	Ala	
158	15				20				25			30					
160	ttg	gaa	acc	tgg	ggt	gcc	ttg	ggt	cag	gac	atc	aac	ttg	gac	att	cct	144
161	Leu	Glu	Thr	Trp	Gly	Ala	Leu	Gly	Gln	Asp	Ile	Asn	Leu	Asp	Ile	Pro	
162						35			40			45					

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164	agt	ttt	caa	atg	agt	gat	att	gac	gat	ata	aaa	tgg	gaa	aaa	act	192	
165	Ser	Phe	Gln	Met	Ser	Asp	Asp	Ile	Asp	Asp	Ile	Lys	Trp	Glu	Lys	Thr	
166				50				55				60					
168	tca	gac	aag	aaa	aag	att	gca	caa	ttc	aga	aaa	gag	aaa	gag	act	ttc	240
169	Ser	Asp	Lys	Lys	Lys	Ile	Ala	Gln	Phe	Arg	Lys	Glu	Lys	Glu	Thr	Phe	
170				65			70			75							
172	aag	gaa	aaa	gat	aca	tat	aag	cta	ttt	aaa	aat	gga	act	ctg	aaa	att	288
173	Lys	Glu	Lys	Asp	Thr	Tyr	Lys	Leu	Phe	Lys	Asn	Gly	Thr	Leu	Lys	Ile	
174				80			85			90							
176	aag	cat	ctg	aag	acc	gat	gat	cag	gat	atc	tac	aag	gta	tca	ata	tat	336
177	Lys	His	Leu	Lys	Thr	Asp	Asp	Gln	Asp	Ile	Tyr	Lys	Val	Ser	Ile	Tyr	
178	95			100			105			110							
180	gat	aca	aaa	gga	aaa	aat	gtg	ttg	gaa	aaa	ata	ttt	gat	ttg	aag	att	384
181	Asp	Thr	Lys	Gly	Lys	Asn	Val	Leu	Glu	Lys	Ile	Phe	Asp	Leu	Lys	Ile	
182				115			120			125							
184	caa	gag	agg	gtc	tca	aaa	cca	aag	atc	tcc	tgg	act	tgt	atc	aac	aca	432
185	Gln	Glu	Arg	Val	Ser	Lys	Pro	Lys	Ile	Ser	Trp	Thr	Cys	Ile	Asn	Thr	
186		130			135			140									
188	acc	ctg	acc	tgt	gag	gta	atg	aat	gga	act	gac	ccc	gaa	tta	aac	ctg	480
189	Thr	Leu	Thr	Cys	Glu	Val	Met	Asn	Gly	Thr	Asp	Pro	Glu	Leu	Asn	Leu	
190	145			150			155										
192	tat	caa	gat	ggg	aaa	cat	cta	aaa	ctt	tct	cag	agg	gtc	atc	aca	cac	528
193	Tyr	Gln	Asp	Gly	Lys	His	Leu	Lys	Leu	Ser	Gln	Arg	Val	Ile	Thr	His	
194	160			165			170										
196	aag	tgg	acc	acc	agc	ctg	agt	gca	aaa	ttc	aag	tgc	aca	gca	ggg	aac	576
197	Lys	Trp	Thr	Thr	Ser	Leu	Ser	Ala	Lys	Phe	Lys	Cys	Thr	Ala	Gly	Asn	
198	175			180			185			190							
200	aaa	gtc	agc	aag	gaa	tcc	agt	gtc	gag	cct	gtc	agc	tgt	cca	gag	aaa	624
201	Lys	Val	Ser	Lys	Glu	Ser	Ser	Val	Glu	Pro	Val	Ser	Cys	Pro	Glu	Lys	
202		195			200			205									
204	ggt	ctg	gac	atc	tat	ctc	atc	att	ggc	ata	tgt	gga	gga	ggc	agc	ctc	672
205	Gly	Leu	Asp	Ile	Tyr	Leu	Ile	Ile	Gly	Ile	Cys	Gly	Gly	Ser	Leu		
206	210			215			220										
208	ttg	atg	gtc	ttt	gtg	gca	ctg	ctc	gtt	ttc	tat	atc	acc	aaa	agg	aaa	720
209	Leu	Met	Val	Phe	Val	Ala	Leu	Leu	Val	Phe	Tyr	Ile	Thr	Lys	Arg	Lys	
210	225			230			235										
212	aaa	cag	agg	agt	cgg	aga	aat	gat	gag	gag	ctg	gag	aca	aga	gcc	cac	768
213	Lys	Gln	Arg	Ser	Arg	Arg	Asn	Asp	Glu	Glu	Leu	Glu	Thr	Arg	Ala	His	
214	240			245			250										
216	aga	gta	gct	act	gaa	gaa	agg	ggc	cgg	aag	ccc	cac	caa	att	cca	gct	816
217	Arg	Val	Ala	Thr	Glu	Glu	Arg	Gly	Arg	Lys	Pro	His	Gln	Ile	Pro	Ala	
218	255			260			265			270							
220	tca	acc	cct	cag	aat	cca	gca	act	tcc	caa	cat	cct	cct	cca	cca	cct	864
221	Ser	Thr	Pro	Gln	Asn	Pro	Ala	Thr	Ser	Gln	His	Pro	Pro	Pro	Pro	Pro	
222		275			280			285									
224	ggt	cat	cgt	tcc	cag	gca	cct	agt	cat	cgt	ccc	ccg	cct	cct	gga	cac	912
225	Gly	His	Arg	Ser	Gln	Ala	Pro	Ser	His	Arg	Pro	Pro	Pro	Pro	Gly	His	
226	290			295			300										
228	cgt	gtt	cag	cac	cag	cct	cag	aag	agg	cct	cct	gct	ccg	tcg	ggc	aca	960

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229 Arg Val Gln His Gln Pro Gln Lys Arg Pro Pro Ala Pro Ser Gly Thr  
230 305 310 315  
232 caa gtt cac cag cag aaa ggc ccg ccc ctc ccc aga cct cga gtt cag 1008  
233 Gln Val His Gln Gln Lys Gly Pro Pro Leu Pro Arg Pro Arg Val Gln  
234 320 325 330  
236 cca aaa cct ccc cat ggg gca gca gaa aac tca ttg tcc cct tcc tct 1056  
237 Pro Lys Pro Pro His Gly Ala Ala Glu Asn Ser Leu Ser Pro Ser Ser  
238 335 340 345 350  
240 aat taaaaaagat agaaaactgtc ttttcaata aaaagcactg tggatttctg 1109  
241 Asn  
244 ccctcctgat gtgcataatcc gtacttccat gaggtgtttt ctgtgtgcag aacattgtca 1169  
246 cctcctgagg ctgtgggcca cagccaccc tgcataatcc aactcagcca tgtggtcaac 1229  
248 atctggagtt tttggtctcc tcagagagct ccatcacacc agtaaggaga agcaatataa 1289  
250 gtgtgattgc aagaatggta gaggaccgag cacagaaatc tttagagattt cttgtcccct 1349  
252 ctcaggtcat gtgttagatgc gataaatcaa gtgattggtg tgcctgggtc tcactacaag 1409  
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256 catcctgtga gtaaaagtga aataaaagct ttgac 1504  
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260 <211> LENGTH: 351  
261 <212> TYPE: PRT  
262 <213> ORGANISM: Homo sapiens  
264 <400> SEQUENCE: 3  
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267 1 5 10 15  
270 Val Ser Ser Lys Gly Ala Val Ser Lys Glu Ile Thr Asn Ala Leu Glu  
271 20 25 30  
274 Thr Trp Gly Ala Leu Gly Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe  
275 35 40 45  
278 Gln Met Ser Asp Asp Ile Asp Asp Ile Lys Trp Glu Lys Thr Ser Asp  
279 50 55 60  
282 Lys Lys Lys Ile Ala Gln Phe Arg Lys Glu Lys Glu Thr Phe Lys Glu  
283 65 70 75 80  
286 Lys Asp Thr Tyr Lys Leu Phe Lys Asn Gly Thr Leu Lys Ile Lys His  
287 85 90 95  
290 Leu Lys Thr Asp Asp Gln Asp Ile Tyr Lys Val Ser Ile Tyr Asp Thr  
291 100 105 110  
294 Lys Gly Lys Asn Val Leu Glu Lys Ile Phe Asp Leu Lys Ile Gln Glu  
295 115 120 125  
298 Arg Val Ser Lys Pro Lys Ile Ser Trp Thr Cys Ile Asn Thr Thr Leu  
299 130 135 140  
302 Thr Cys Glu Val Met Asn Gly Thr Asp Pro Glu Leu Asn Leu Tyr Gln  
303 145 150 155 160  
306 Asp Gly Lys His Leu Lys Leu Ser Gln Arg Val Ile Thr His Lys Trp  
307 165 170 175  
310 Thr Thr Ser Leu Ser Ala Lys Phe Lys Cys Thr Ala Gly Asn Lys Val  
311 180 185 190  
314 Ser Lys Glu Ser Ser Val Glu Pro Val Ser Cys Pro Glu Lys Gly Leu  
315 195 200 205  
318 Asp Ile Tyr Leu Ile Ile Gly Ile Cys Gly Gly Ser Leu Leu Met

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319	210	215	220																
322	Val	Phe	Val	Ala	Leu	Leu	Val	Phe	Tyr	Ile	Thr	Lys	Arg	Lys	Lys	Gln			
323	225						230				235					240			
326	Arg	Ser	Arg	Arg	Asn	Asp	Glu	Glu	Leu	Glu	Thr	Arg	Ala	His	Arg	Val			
327							245				250					255			
330	Ala	Thr	Glu	Glu	Arg	Gly	Arg	Lys	Pro	His	Gln	Ile	Pro	Ala	Ser	Thr			
331							260				265					270			
334	Pro	Gln	Asn	Pro	Ala	Thr	Ser	Gln	His	Pro	Pro	Pro	Pro	Pro	Gly	His			
335							275				280					285			
338	Arg	Ser	Gln	Ala	Pro	Ser	His	Arg	Pro	Pro	Pro	Pro	Gly	His	Arg	Val			
339							290				295					300			
342	Gln	His	Gln	Pro	Gln	Lys	Arg	Pro	Pro	Ala	Pro	Ser	Gly	Thr	Gln	Val			
343	305						310				315					320			
346	His	Gln	Gln	Lys	Gly	Pro	Pro	Leu	Pro	Arg	Pro	Arg	Val	Gln	Pro	Lys			
347							325				330					335			
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367							1				5					10			
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370	Leu	Ser	Val	Val	Cys	Leu	Leu	His	Cys	Phe	Gly	Phe	Ile	Ser	Cys	Phe			
371							15			20			25						
373	tcc	caa	caa	ata	tat	ggt	gtt	gtg	tat	ggg	aat	gta	act	ttc	cat	gta		147	
374	Ser	Gln	Gln	Ile	Tyr	Gly	Val	Val	Tyr	Gly	Asn	Val	Thr	Phe	His	Val			
375							30			35			40			45			
377	cca	agc	aat	gtg	cct	tta	aaa	gag	gtc	cta	tgg	aaa	aaa	caa	aag	gat		195	
378	Pro	Ser	Asn	Val	Pro	Leu	Lys	Glu	Val	Leu	Trp	Lys	Lys	Gln	Lys	Asp			
379							50			55			60						
381	aaa	gtt	gca	gaa	ctg	gaa	aat	tct	gaa	ttc	aga	gct	ttc	tca	tct	ttt		243	
382	Lys	Val	Ala	Glu	Leu	Glu	Asn	Ser	Glu	Phe	Arg	Ala	Phe	Ser	Ser	Phe			
383							65			70			75						
385	aaa	aat	agg	gtt	tat	tta	gac	act	gtg	tca	ggt	agc	ctc	act	atc	tac		291	
386	Lys	Asn	Arg	Val	Tyr	Leu	Asp	Thr	Val	Ser	Gly	Ser	Leu	Thr	Ile	Tyr			
387							80			85			90						
389	aac	tta	aca	tca	tca	gat	gaa	gat	gag	tat	gaa	atg	gaa	tcg	cca	aat		339	
390	Asn	Leu	Thr	Ser	Ser	Asp	Glu	Asp	Glu	Tyr	Glu	Met	Glu	Ser	Pro	Asn			
391							95			100			105						
393	att	act	gat	acc	atg	aag	ttc	ttt	ctt	tat	gtg	ctt	gag	tct	ctt	cca		387	
394	Ile	Thr	Asp	Thr	Met	Lys	Phe	Phe	Leu	Tyr	Val	Leu	Glu	Ser	Leu	Pro			
395							110			115			120			125			

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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:38; Xaa Pos. 1,4

### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,6,37,38

**VERIFICATION SUMMARY**

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L:3794 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0